

SEED

Introduction

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SEED Browser

SEED Browser is a way to browse SEED product names and subsystems. It can be accessed through **SEED** on the second-level menu of **Find Functions**, as shown in Figure 1.

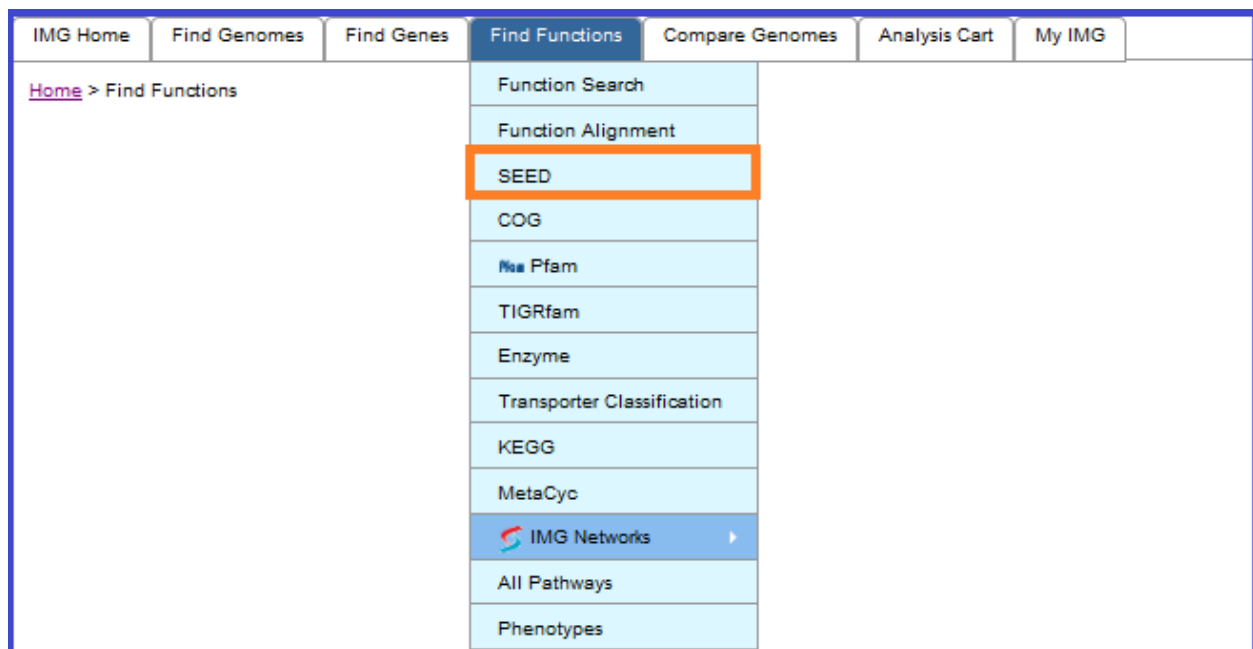


Figure 1: Access SEED Browser.

The page of **SEED Browser**, as shown in Figure 2, displays a complete list of SEED product names and subsystems. Clicking the link for “SEED product name” results in a table display of that particular SEED product, see Figure 3.

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 14382 SEED Product (1094 Subsystem) Loaded.

SEED Browser

[SEED list](#)

01 Amino Acids and Derivatives

02 Alanine, serine, and glycine

Alanine_biosynthesis

- [Alanine racemase \(EC 5.1.1.1\)](#)
- [Alanine racemase, biosynthetic \(EC 5.1.1.1\)](#)
- [Alanine racemase, catabolic \(EC 5.1.1.1\)](#)
- [Branched-chain amino acid aminotransferase \(EC 2.6.1.42\)](#)
- [Cysteine desulfurase \(EC 2.8.1.7\)](#)
- [Cysteine desulfurase \(EC 2.8.1.7\), lscS subfamily](#)
- [Cysteine desulfurase \(EC 2.8.1.7\), NifS subfamily](#)
- [Cysteine desulfurase \(EC 2.8.1.7\), SufS subfamily](#)
- [Cysteine desulfurase CsdA-CsdE \(EC 2.8.1.7\), main protein CsdA](#)
- [Cysteine desulfurase, mitochondrial precursor \(EC 2.8.1.7\)](#)
- [Glutamate-pyruvate aminotransferase \(EC 2.6.1.2\)](#)
- [HTH-type transcriptional regulator llyY](#)
- [Probable valine-pyruvate aminotransferase \(EC 2.6.1.66\)](#)
- [Valine--pyruvate aminotransferase \(EC 2.6.1.66\)](#)

Glycine_Biosynthesis

- [2-amino-3-ketobutyrate coenzyme A ligase \(EC 2.3.1.29\)](#)
- [Glycine riboswitch](#)
- [L-threonine 3-dehydrogenase \(EC 1.1.1.103\)](#)
- [Low-specificity L-threonine aldolase \(EC 4.1.2.5\)](#)
- [Serine hydroxymethyltransferase \(EC 2.1.2.1\)](#)

Glycine_and_Serine_Utilization

- [2-amino-3-ketobutyrate coenzyme A ligase \(EC 2.3.1.29\)](#)
- [Aminomethyltransferase \(glycine cleavage system T protein\) \(EC 2.1.2.10\)](#)
- [Cystathionine beta-synthase \(EC 4.2.1.22\)](#)
- [Cystathionine gamma-lyase \(EC 4.4.1.1\)](#)
- [D-3-phosphoglycerate dehydrogenase \(EC 1.1.1.95\)](#)
- [D-serine dehydratase \(EC 4.3.1.18\)](#)
- [D-serine dehydratase transcriptional activator](#)
- [D-serine permease DsdX](#)
- [D-serine/D-alanine/glycine transporter](#)
- [Glycerate kinase \(EC 2.7.1.31\)](#)

Figure 2: SEED Browser.

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 1 SEEDs retrieved

SEEDs

Search column: SEED Product Name Search term:

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Select	SEED Product Name	SEED Subsystem	Level 2	Level 1	Gene Count	Genome Count
<input type="checkbox"/>	Alanine racemase (EC 5.1.1.1)	Alanine_biosynthesis	Alanine, serine, and glycine	Amino Acids and Derivatives	854	771

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Figure 3: Table Display of individual SEED.

SEED List

Further, user can click the “SEED List” link to have a table list of all the SEEDs, as shown in Figure 4. Through the table, user can select and export the data of desired rows by using the provided “Select All”/“Clear All” buttons.

IMG Home

Find Genomes

Find Genes

Find Functions

Compare Genomes

Analysis Cart

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Using IMG

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14382 SEEDs retrieved

SEEDs

Select All

Clear All

Search column: SEED Product Name

Search term:

Export

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2

3

4

5

6

7

8

9

10

next> last>>

100

Column Selector

Select Page

Deselect Page

Select	SEED Product Name	SEED Subsystem	Level 2	Level 1	Gene Count	Genome Count
<input type="checkbox"/>	"phi-Carotenoid synthase" (EC 1.3.-.- and EC 2.1.1.-)	Carotenoids	Isoprenoids	Fatty Acids, Lipids, and Isoprenoids	13	13
<input type="checkbox"/>	(3R)-hydroxymyristoyl-[ACP] dehydratase (EC 4.2.1.-)	Phospholipid_and_Fatty_acid_biosynthesis_related_cluster	Fatty acids	Fatty Acids, Lipids, and Isoprenoids	96	97
<input type="checkbox"/>	(3R)-hydroxymyristoyl-[acyl carrier protein] dehydratase (EC 4.2.1.-)	Fatty_Acid_Biosynthesis_FASII	Fatty acids	Fatty Acids, Lipids, and Isoprenoids	1241	1157
<input type="checkbox"/>	(GlcNAc)2 ABC transporter, ATP-binding component 1	(GlcNAc)2_Catabolic_Operon	Aminosugars	Carbohydrates	52	52
<input type="checkbox"/>	(GlcNAc)2 ABC transporter, ATP-binding component 2	(GlcNAc)2_Catabolic_Operon	Aminosugars	Carbohydrates	45	45
<input type="checkbox"/>	(GlcNAc)2 ABC transporter, periplasmic substrate-binding protein	(GlcNAc)2_Catabolic_Operon	Aminosugars	Carbohydrates	54	54
<input type="checkbox"/>	(GlcNAc)2 ABC transporter, permease component 1	(GlcNAc)2_Catabolic_Operon	Aminosugars	Carbohydrates	52	52
<input type="checkbox"/>	(GlcNAc)2 ABC transporter, permease component 2	(GlcNAc)2_Catabolic_Operon	Aminosugars	Carbohydrates	54	54
<input type="checkbox"/>	(Pyruvate) Oxoisovalerate Dehydrogenase Alpha & Beta Fusion like	Dehydrogenase_complexes	Central carbohydrate metabolism	Carbohydrates	20	20

Figure 4: Table Display of All SEEDs.